Table C-5. Surface Soil Chemical Constituent Screening Results by Constituent

All Constituents with PRGs ^a	Constituents Where EPA RSL < PRG ^a	Constituents Where EPA RSL < PRG (any EU) ^a	Constituents Where MDC > EPA RSL (any EU) ^a
Acenaphthene	1,1,1-Trichloroethane	1,1,1-Trichloroethane	2,3,7,8-TCDD,
Acenapthylene	1,1,2,2-Tetrachloroethane	1,1,2,2-Tetrachloroethane	Aroclor 1254
Acetone	1,1,2-Trichloro-1,2,2-	1,1,2-Trichloro-1,2,2-	Aroclor 1260
Acrolein	trifluoroethane	trifluoroethane	Benz[a]anthracene
Acrylonitrile	1,1,2-Trichloroethane	1,2,3-Trichloropropane	Benzo[a]pyrene
Alachlor	1,1-Dichloroethane,	1,2,4-Trichlorobenzene	Benzo[b]fluoranthene
Aldicarb	1,2,3-Trichloropropane	1,2-Dichloropropane	Cobalt
Aldicarb sulfone	1,2,4-Trichlorobenzene	2,4,6-Trichlorophenol	Dibenz[a,h]anthracene
Aldicarb sulfoxide	1,2-Dibromo-3-	2,4-Dimethylphenol	Indeno[1,2,3-cd]pyrene
Aldrin	chloropropane	2,4-Dinitrophenol	Lead and compounds
Aluminum	1,2-Dichlorobenzene	2,3,7,8-TCDD,	Mercury (elemental)
Ammonia	1,2-Dichloroethane	2-Butanone (methyl ethyl	Naphthalene
Anthracene	1,2-Dichloropropane	ketone)	Nitroso-di- <i>n</i> -propylamine,
Antimony (metallic)	1,2-Diphenylhydrazine	2-Methylnaphthalene,	N-
Aroclor 1016	1,4-Dioxane	4-methyl-2-pentanone	Uranium (soluble salts) ^b
Aroclor 1221	2,4,6-Trichlorophenol	(methyl isobutyl ketone)	
Aroclor 1232	2,4-Dimethylphenol	Acetone	
Aroclor 1242	2,4-Dinitrophenol	Aroclor 1242 Aroclor 1248	
Aroclor 1248	2,4-Dinitrotoluene		
Aroclor 1254 Aroclor 1260	2,6-Dinitrotoluene	Aroclor 1254 Aroclor 1260	
	2,3,7,8-TCDD,	Benzene	
Arsenic, Inorganic Atrazine	2-Butanone (methyl ethyl	1	
Barium	ketone) 2-Chloronaphthalene (beta-)	Benz[a]anthracene Benzo[a]pyrene	
Benzene	2-Methylnaphthalene	Benzo[b]fluoranthene	
Benzidine	3,3'-Dichlorobenzidine	Benzo[k]fluoranthene	
Benz[a]anthracene	4,6-Dinitro-o-cresol	Benzyl alcohol	
Benzo[a]pyrene	4-Chloroaniline	Bis(2-ethylhexyl)phthalate	
Benzo[b]fluoranthene	4-methyl-2-pentanone	Bromodichloromethane	
Benzo[g,h,i]perylene	(methyl isobutyl ketone)	Bromomethane	
Benzo[k]fluoranthene	4-Nitroaniline,	Butyl benzyl phthalate	
Benzoic acid	Acetone	Carbon disulfide	
Benzyl alcohol	Acrolein	Carbon tetrachloride	
Beryllium and compounds	Acrylonitrile	Chlorobenzene	
Bis(2-chloroethyl)ether	Aroclor 1221	Chloroform	
Bis(2-chloro-1-methylethyl)	Aroclor 1232	Chloromethane (methyl	
ether	Aroclor 1242	chloride)	
Bis(2-ethylhexyl)phthalate	Aroclor 1248	Chrysene	
Boron and borates only	Aroclor 1254	Cobalt	
Bromodichloromethane	Aroclor 1260	DDD	
Bromoform	Atrazine	DDE, p,p'-	
Bromomethane	Benzene	DDT	
2-Butanone (methyl ethyl	Benzidine	Dibenz[a,h]anthracene	
ketone)	Benz[a]anthracene	Dibenzofuran	
Butyl benzyl phthalate	Benzo[<i>a]</i> pyrene	Dieldrin	
Cadmium (diet)	Benzo[b]fluoranthene	Dimethylphthalate	
Carbazole	Benzo[k]fluoranthene	di-N-Octyl phthalate	
Carbofuran	Benzyl alcohol	thylbenzene	
Carbon disulfide	Bis(2-chloroethyl)ether	~Fluorene	
Carbon tetrachloride	Bis(2-ethylhexyl)phthalate	Hexachlorobenzene	
Chlordane-alpha	Bromodichloromethane	Hexachlorobutadiene	
Chlordane-beta	Bromoform	Indeno[1,2,3-cd]pyrene	
Chlordane-gamma	Bromomethane	Isophorone	
4-Chloroaniline	Butyl benzyl phthalate	Lead and compounds	
Chlorobenzene	Carbon disulfide	Lithium	
Ethyl chloride (chloroethane)	Carbon tetrachloride	Mercury (elemental)	
Chloroform	Chlordane-gamma	Naphthalene	l .

Table C-5. Surface Soil Chemical Constituent Screening Results by Constituent (continued)

All Constituents with PRGs ^a	Constituents Where EPA RSL < PRG ^a	Constituents Where EPA RSL < PRG (any EU) ^a	Constituents Where MDC > EPA RSL (any EU) ^a
Chloromethane (methyl	Chloroform	Nitroso-di-n-propylamine,	
chloride)	Chloromethane (methyl	N-	
4-Chloro-3-methylphenol	chloride)	Pentachlorophenol	
(Cresol, p-chloro-m-)	Chlorpyrifos	Styrene	
2-Chloronaphthalené (beta-)	Chrysene	Thallium (soluble salts)	
Chlorophenol, 2-	Cobalt	Uranium (soluble salts)b	
Chlorpyrifos	Cyanide (CN ⁻)	Xylenes	
Chromium(III), insoluble salts	Cyclohexane	7.9.555	
Chromium(VI)	DDD		
Chrysene	DDE, p,p'-		
Cobalt	DDT P,p		
Copper	Di(2-ethylhexyl)adipate		
Cyanide (CN ⁻)	Dibenz[a,h]anthracene		
Cyclohexane	Dibenzela, manunacene Dibenzofuran		
DDD	Dibromochloromethane		
!!	1		
DDE, p,p'-	Dichlorodifluoromethane		
DDT	Dieldrin		
Dalapon	Dimethoate		
Demeton	Dimethylphthalate		
Dibenz[a,h]anthracene	di-N-Octyl phthalate		
Dibenzofuran	Ethyl acetate		
Dibromochloromethane	Ethylbenzene		
1,2-Dibromo-3-chloropropane	Fluorene		
Dibutyl phthalate	Heptachlor		
Dicamba	Hexachlorobenzene		
Dichlorobenzene, 1,2-	Hexachlorobutadiene		
Dichlorobenzene, 1,3-	Hexachlorocyclohexane,		
Dichlorobenzene, 1,4-	alpha-		
Dichlorobenzidine, 3,3'-	Hexachlorocyclohexane,		
Dichlorodifluoromethane	beta-		
Dichloroethane, 1,1-	Hexachlorocyclohexane,		
Dichloroethane, 1,2-	gamma- (Lindane)		
Dichloroethylene, 1,1-	Hexachlorocyclohexane,		
Dichloroethene, 1,2- (total)	technical		
Dichlorophenol, 2,4-	Hexachlorocyclopentadiene		
Dichlorophenoxy acetic acid,	Hexachlorodibenzo-p-dioxin		
2,4-	Hexachloroethane		
Dichlorophenoxy)butyric acid,	HxCDD, 1,2,3,6,7,8-		
4-(2,4-	HxCDD, 1,2,3,7,8,9-		
Dichloropropane, 1,2-	Indeno[1,2,3-cd]pyrene		
Dichloropropane, 1,3-	Isophorone		
Dichloropropene, cis-1,3-	Lead and compounds		
Dichloropropene, <i>trans</i> -1,3-	Lithium		
Dieldrin	Mercury (elemental)		
Diethyl ether (ethyl ether)	Methyl methacrylate		
Di(2-ethylhexyl)adipate	Methyl <i>tert</i> -butyl ether		
Di(2-ethylnexyl)adipate Diethyl phthalate	(MTBE)		
Dimethoate	Mirex		
Dimethylphenol, 2,4-	Naphthalene		
Dimethylphthalate	Nitrobenzene		
Dinitro-o-cresol, 4,6-	Nitrosodiethylamine, N-		
Dinitrophenol, 2,4-	Nitrosodimethylamine, N-		
Dinitrotoluene, 2,4-	Nitroso-di-N-butylamine, N-		
Dinitrotoluene, 2,6-	Nitroso-di- <i>n</i> -propylamine, N-		
di-N-Octyl phthalate	Nitrosodiphenylamine, N-		
Dinoseb	Nitrosopyrrolidine, N-		
Dioxane, 1,4-	Pentachlorophenol		
TCDD, 2,3,7,8-	p-Nitrotoluene,		
Diphenylhydrazine, 1,2-	Simazine		

Table C-5. Surface Soil Chemical Constituent Screening Results by Constituent (continued)

All Constituents with PRGs ^a	Constituents Where EPA RSL < PRG ^a	Constituents Where EPA RSL < PRG	Constituents Where MDC > EPA RSL
		(any EU) ^a	(any EU) ^a
Diquat	Styrene		
Endosulfan I	Thallium (soluble salts)		
Endosulfan II	Toxaphene		
Endosulfan sulfate	Uranium (soluble salts) ^b		
Endosulfan (technical)	Vinyl acetate		
Endrin	Vinyl chloride		
Endrin aldehyde	Xylene, m-		
Endrin ketone	Xylene, o-		
Ethyl acetate	Xylene, p-		
Ethylbenzene	Xylenes		
Ethylene dibromide			
(Dibromoethane, 1,2-)			
Fluoranthene			
Fluorene			
Fluorine (soluble fluoride)			
Glyphosate			
Guthion (azinphos-methyl)			
Heptachlor			
Heptachlor epoxide			
Hexachlorobenzene			
Hexachlorobutadiene			
Hexachlorocyclohexane,			
alpha-			
Hexachlorocyclohexane,			
beta-			
Hexachlorocyclohexane,			
gamma- (Lindane)			
Hexachlorocyclohexane,			
delta-			
Hexachlorocyclohexane,			
technical			
Hexachlorocyclopentadiene			
Hexachlorodibenzo-p-dioxin			
HxCDD, 1,2,3,6,7,8-			
HxCDD, 1,2,3,7,8,9-			
Hexachloroethane			
Indeno[1,2,3-cd]pyrene			
Iron			
Isobutyl alcohol			
Isophorone			
Isopropylbenzene (cumene)			
Lead and compounds			
Lithium			
Manganese (diet)			
Mercury (elemental)			
Methoxychlor			
MCPA			
MCPP			
Methylene chloride			
Methyl methacrylate			
Methylnaphthalene, 2-			
Methyl isobutyl ketone			
(4-methyl-2-pentanone)			
2-Methylphenol (cresol, o-)			
4-Methylphenol (Cresol, <i>p</i> -)			
Methyl tert-butyl ether			
(MTBE)			
Mirex			
Molybdenum			

Table C-5. Surface Soil Chemical Constituent Screening Results by Constituent (continued)

All Constituents with PRGs ^a	Constituents Where EPA RSL < PRG ^a	Constituents Where EPA RSL < PRG (any EU) ^a	Constituents Where MDC > EPA RSL (any EU) ^a
Nanhthalana		(any EO)	(arry LO)
Naphthalene Niekal askubla askta			
Nickel soluble salts Nitrate			
Nitrite			
Nitroaniline, 2-			
Nitroaniline, 4-			
Nitrobenzene			
Nitrophenol, 4-			
Nitroso-di-N-butylamine, N-			
Nitrosodiethylamine, N-			
Nitrosodimethylamine, N-			
Nitrosodiphenylamine, N-			
Nitroso-di- <i>n</i> -propylamine, N-			
Nitrosopyrrolidine, N-			
Nitrotoluene, p-			
Octahydro-1,3,5,7-tetranitro-			
1,3,5,7-tetrazocine (HMX)			
Oxamyl			
Parathion			
Pentachlorobenzene			
Pentachlorophenol			
Phenanthrene			
Phenol			
Picloram			
Pyrene			
Selenium			
Silver			
Simazine			
Strontium, stable			
Styrene Sulfide			
Tetrachlorobenzene, 1,2,4,5-			
Tetrachloroethane, 1,1,1,2-			
Tetrachloroethane, 1,1,2,2-			
Tetrachloroethylene			
Tetrachlorophenol, 2,3,4,6-			
Thallium (soluble salts)			
Tin '			
Titanium			
Toluene			
Toxaphene			
Trichlorobenzene, 1,2,4-			
Trichloroethane, 1,1,1-			
Trichloroethane, 1,1,2-			
Trichloroethylene			
Trichlorofluoromethane			
Trichlorophenol, 2,4,5-			
Trichlorophenol, 2,4,6-			
Trichlorophenoxypropionic			
acid, -2,4,5			
Trichloropropane, 1,2,3- Trichloro-1,2,2-			
Trifluoroethane, 1,1,2-			
Trinitrotoluene, 2,4,6-			
Uranium (soluble salts) ^b			
Vanadium and compounds			
Vinyl acetate			
Vinyl chloride			
Xylene, p-			

Table C-5. Surface Soil Chemical Constituent Screening Results by Constituent (continued)

All Constituents with PRGs ^a	Constituents Where EPA RSL < PRG ^a	Constituents Where EPA RSL < PRG (any EU) ^a	Constituents Where MDC > EPA RSL (any EU) ^a
Xylene, m-			
Xylene, <i>m-</i> Xylene, <i>o-</i>			
Xylenes			
Zinc and compounds			

Notes:

Because no COCs were identified in the CRA for subsurface soils and because the reevaluation of surface soil data discussed above indicated that the CRA process was sound in identifying COCs, a more targeted approach was taken in this FYR to answer Question B with regard to subsurface soils. An abbreviated PRG list was used for subsurface soil screening based on the results of the surface soil screening process. This included all constituents for which any surface soil MDC exceeded the surface soil PRG (constituents listed in Table C-4 and last column in Table C-5); tetrachloroethene was also added to this list as it was identified as a subsurface analyte of interest in the RI/FS (Table C-1). The constituents evaluated along with screening results are listed in Table C-6. The current WRW RSLs were multiplied by 11.5 to obtain current estimates of subsurface WRW PRGs. The screening with this smaller set of PRGs proceeded in the same manner as the surface soil FYR evaluation described above.

^a The first column lists all constituents for which WRW PRGs were developed. The constituents are arranged in the same order as they were in the CRA methodology document where the PRGs were developed (DOE 2004). The second column lists all constituents where the May 2016 EPA RSLs were lower than the WRW PRGs. The constituents are arranged in the order used in the PRG screening tables that were included in the CRA for each EU. That same order is used for subsequent columns. The third column includes all constituents that were carried through the screening process for any EU. The last column contains all constituents with an MDC that exceeded an EPA RSL. Note that arsenic and vanadium are not carried past the first column in this table because the EPA RSLs are greater than the WRW PRGs and rescreening isn't required.

^b The revised risk-based screening level for uranium was calculated using the oral reference dose recommended in EPA's December 2016 memorandum (EPA 2016). This screening level is lower than that contained in EPA's current RSLs.